



1 magi

165✓

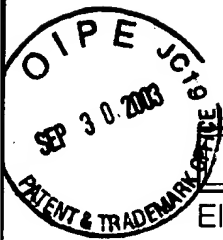
Electronic Filing System (EFS) Data
Electronic Patent Application Submission
USPTO Use Only

EFS ID: 48562
Application ID: 09746921
Title of Invention: Composition and Process For
Bone Growth and Repair
First Named Inventor: Kevin Thorne
Domestic/Foreign Application: Domestic Application
Filing Date: 2000-12-22
Effective Receipt Date: 2003-09-30
Submission Type: Information Disclosure
Statement
Filing Type:
Confirmation number: 2764
Attorney Docket Number: SBI-073 (2026-00800)




Total Fees Authorized:

Digital Certificate Holder: cn=Carol Gresham Mintz,ou=Registered Attorneys,ou=Patent and
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US
Certificate Message Digest: b46e27aa3d923d52a8fcddec708f9dae354c6032



TRANSMITTAL

Electronic Version v1.1
Stylesheet Version v1.1.0


Title of Invention	Composition and Process For Bone Growth and Repair									
Application Number: 09/746921 										
Date: 2000-12-22										
First Named Applicant: Kevin J. Thorne										
Confirmation Number: 2764										
Attorney Docket Number: SBI-073 (2026-00800)										
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p>										
<table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Carol G. Mintz Registered Number: 38,561</td><td>Carol G. Mintz</td><td>Agent</td></tr></tbody></table>			Submitted by:	Elec. Sign.	Sign. Capacity	Carol G. Mintz Registered Number: 38,561	Carol G. Mintz	Agent		
Submitted by:	Elec. Sign.	Sign. Capacity								
Carol G. Mintz Registered Number: 38,561	Carol G. Mintz	Agent								
<table><tr><td>Documents being submitted</td><td>Files</td></tr><tr><td>us-ids</td><td>202600800.IDS-usidst.xml</td></tr><tr><td></td><td>us-ids.dtd</td></tr><tr><td></td><td>us-ids.xsl</td></tr></table>			Documents being submitted	Files	us-ids	202600800.IDS-usidst.xml		us-ids.dtd		us-ids.xsl
Documents being submitted	Files									
us-ids	202600800.IDS-usidst.xml									
	us-ids.dtd									
	us-ids.xsl									
Comments										



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Composition and Process For Bone Growth and Repair	
Application Number:	09/746921	
Confirmation Number:	2764	
First Named Applicant:	Kevin Thorne	
Attorney Docket Number:	SBI-073 (2026-00800)	
Art Unit:	1654	
Examiner:	Patricia A. Patten	
Search string:	(RE35694 or 3919723 or 3968567 or 4146936 or 4192021 or 4202055 or 4237559 or 4356572 or 4394370 or 4412947 or 4429691 or 4497075 or 4609551 or 4619655 or 4623553 or 4642120 or 4698326 or 4774227 or 4789663 or 4795467 or 4843063 or 4843112 or 4863732 or 4863856 or 4888366 or 4919670 or 4997446 or 5001169 or 5011691 or 5024841 or 5028695 or 5085861 or 5108753 or 5118667 or 5137534 or 5204382 or 5208219 or 5236704 or 5262166 or 5274078 or 5306303 or 5354557 or 5366508 or 5393739 or 5417975 or 5425770 or 5433751 or 5443531 or 5496552 or 5531791 or 5532217 or 5547378 or 5552454 or 5599552 or 5639402 or 5769897 or 5776193 or 5811094 or 5814604 or 5830340 or 5837752 or 5904717 or 5904718 or 5910492 or 5916553 or 5932207 or 5935594 or 5952010 or 5955529 or 5958430 or 5958441 or 5997895 or 6018095 or 6033438 or 6071982 or 6118043 or 6132463 or 6136029 or 6139578 or 6165487 or 6180605 or 6180606 or 6183515 or 6187047 or 6187329 or 6214049 or 6214368 or 6261565 or 6264701 or 6277151 or 6280191 or 6287341 or 6294187 or 6296667 or 6297213 or 6299650 or 6300315 or 6326018 or 6376211 or 6384196 or 6384197 or 4668295 or 5123923 or 5152836 or 5426769 or 6346123 or 5290763 or 5707962 or 4451397 or 4455256 or 4563350 or 4596574 or 4606910 or 4620327 or 4761471 or 4776890 or 4780450 or 4789732 or 4891359 or 4950483 or 4970298 or 4975527 or 5034059 or 5035715 or 5053212 or 5061286 or 5069905 or 5071434	

or 5073373 or 5123925 or 5162114 or 5169837
or 5171574 or 5206023 or 5207710 or 5231169
or 5236456 or 5258029 or 5263985 or 5270300
or 5320844 or 5336264 or 5338772 or 5344654
or 5352715 or 5366756 or 5368858 or 5399361
or 5405390 or 5413989 or 5428022 or 5455231
or 5466462 or 5508267 or 5522894 or 5543394
or 5565502 or 5573771 or 5604204 or 5618549
or 5645591 or 5661007 or 5674290 or 5674292
or 5674521 or 5676699 or 5677284 or 5683459
or 5683461 or 5686425 or 5691397 or 5703043
or 5709934 or 5728679 or 5739286 or 5750146
or 5756457 or 5830493 or 5840325 or 5854207
or 5899939 or 5906827 or 5910315 or 5916870
or 5922025 or 5928635 or 5948426 or 5955438
or 5964805 or 5972368 or 6005161 or 6013853
or 6013856 or 6027742 or 6027743 or 6028242
or 6039762 or 6077988 or 6090996 or 6110482
or 6123731 or 6136030 or 6168801 or 6177406
or 6187046 or 6187742 or 6189537 or 6203573
or 6203574 or 6206924 or 6206931 or 6221109
or 6261586 or 6280474 or 6281195 or 6287816
or 6294041 or 6302913 or 6309422 or 6309909
or 6311690 or 6331312 or 6340648 or 6352972
or 6371985 or 6372257 or 6379385 or 6406498
or 6417166 or 6419708 or 6423095 or 6425949
or 6426332 or 6432919 or 6440444 or 6444222
or 6468308 or 6478825 or 6479065 or 6479565
or 6504079 or 6511510 or 6511958 or 6524345
or 6540784 or 6541023 or 6544290 or 6551995
or 5279831 or 5650176 or 5670483 or 5681873
or 5707442 or 5711957 or 5741329 or 5755792
or 5769895 or 20020090725 or 20020082594 or
20020055143 or 20020018797 or 20010055622
or 20010053937 or 20010049141 or
20010044413 or 20010016646 or 20010005797
or 20010008980 or 20010010023 or
20010012968 or 20010014662 or 20010014667
or 20010014830 or 20010014831 or
20010018614 or 20010018797 or 20010020476
or 20010031799 or 20010037014 or
20010039453 or 20010041792 or 20010041942
or 20010043940 or 20010051834 or
20010004225 or 20020013626 or 20020013627
or 20020018796 or 20020018798 or
20020022883 or 20020022885 or 20020034532
or 20020034533 or 20020037309 or
20020042657 or 20020045582 or 20020053937
or 20020058622 or 20020061328 or

20020072804 or 20020082694 or 20020082697
or 20020082700 or 20020098222 or
20020106393 or 20020106394).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	RE35694	1997-12-16	Seyedin et al.			
	2	3919723	1975-11-18	Heimke et al.			
	3	3968567	1976-07-13	Nevins			
	4	4146936	1979-04-03	Aoyagi et al.			
	5	4192021	1980-03-11	Deibig et al.			
	6	4202055	1980-05-13	Reiner et al.			
	7	4237559	1980-12-09	Borom			
	8	4356572	1982-11-02	Guillemin et al.			
	9	4394370	1983-07-19	Jeffries			
	10	4412947	1983-11-01	Cioca			
	11	4429691	1984-02-07	Niwa et al.			
	12	4497075	1985-02-05	Niwa et al.			
	13	4609551	1986-09-02	Caplan et al.			
	14	4619655	1986-10-28	Hanker et al.			
	15	4623553	1986-11-18	Ries et al.			
	16	4642120	1987-02-10	Nevo et al.			
	17	4698326	1987-10-06	Sauk et al.			
	18	4774227	1988-09-27	Piez et al.			
	19	4789663	1988-12-06	Wallace et al.			
	20	4795467	1989-01-03	Piez et al.			
	21	4843063	1989-06-27	Seyedin et al.			
	22	4843112	1989-06-27	Gerhart et al.			
	23	4863732	1989-09-05	Nathan et al.			
	24	4863856	1989-09-05	Dean Jr. et al.			
	25	4888366	1989-12-19	Chu et al.			
	26	4919670	1990-04-24	Dale et al.			
	27	4997446	1991-03-05	Thoma			
	28	5001169	1991-03-19	Nathan et al.			
	29	5011691	1991-04-30	Oppermann et al.			

	30	5024841	1991-06-18	Chu et al.
	31	5028695	1991-07-02	Eckmayer et al.
	32	5085861	1992-02-04	Gerhart et al.
	33	5108753	1992-04-28	Kuberasampath et al.
	34	5118667	1992-06-02	Adams et al.
	35	5137534	1992-08-11	Sumita
	36	5204382	1993-04-20	Wallace et al.
	37	5208219	1993-05-04	Ogawa et al.
	38	5236704	1993-08-17	Fujioka et al.
	39	5262166	1993-11-16	Liu et al.
	40	5274078	1993-12-28	Wada et al.
	41	5306303	1994-04-26	Lynch
	42	5354557	1994-10-11	Oppermann et al.
	43	5366508	1994-11-22	Brekke
	44	5393739	1995-02-28	Bentz et al.
	45	5417975	1995-05-23	Lussi et al.
	46	5425770	1995-06-20	Piez et al.
	47	5433751	1995-07-18	Christel et al.
	48	5443531	1995-08-22	Ripamonti
	49	5496552	1996-03-05	Kuberasampath
	50	5531791	1996-07-02	Wolfenbarger Jr.
	51	5532217	1996-07-02	Silver et al.
	52	5547378	1996-08-20	Linkow
	53	5552454	1996-09-03	Kretschmann et al.
	54	5599552	1997-02-04	Dunn et al.
	55	5639402	1997-06-17	Barlow et al.
	56	5769897	1998-06-23	Harle
	57	5776193	1998-07-07	Kwan et al.
	58	5811094	1998-09-22	Caplan et al.
	59	5814604	1998-09-29	Oppermann et al.
	60	5830340	1998-11-03	Ilijitch et al.
	61	5837752	1998-11-17	Shastri et al.
	62	5904717	1999-05-18	Brekke et al.
	63	5904718	1999-05-18	Jefferies
	64	5910492	1999-06-08	Hoshino et al.
	65	5916553	1999-06-29	Schmidt

	66	5932207	1999-08-03	Schmidt
	67	5935594	1999-08-10	Ringeisen
	68	5952010	1999-09-14	Constantz
	69	5955529	1999-09-21	Imai et al.
	70	5958430	1999-09-28	Campbell et al.
	71	5958441	1999-09-28	Oppermann et al.
	72	5997895	1999-12-07	Narotam et al.
	73	6018095	2000-01-25	Lerch et al.
	74	6033438	2000-03-07	Bianchi et al.
	75	6071982	2000-06-06	Wise et al.
	76	6118043	2000-09-12	Nies et al.
	77	6132463	2000-10-17	Lee et al.
	78	6136029	2000-10-24	Johnson et al.
	79	6139578	2000-10-31	Lee et al.
	80	6165487	2000-12-26	Ashkar et al.
	81	6180605	2001-01-30	Chen et al.
	82	6180606	2001-01-30	Chen et al.
	83	6183515	2001-02-06	Barlow et al.
	84	6187047	2001-02-13	Kwan et al.
	85	6187329	2001-02-13	Agrawal et al.
	86	6214049	2001-04-10	Gayer et al.
	87	6214368	2001-04-10	Lee et al.
	88	6261565	2001-07-17	Empie et al.
	89	6264701	2001-07-24	Brekke
	90	6277151	2001-08-21	Lee et al.
	91	6280191	2001-08-28	Gordon
	92	6287341	2001-09-11	Lee et al.
	93	6294187	2001-09-25	Boyce et al.
	94	6296667	2001-10-02	Johnson et al.
	95	6297213	2001-10-02	Oppermann et al.
	96	6299650	2001-10-09	Van Blitterswijk
	97	6300315	2001-10-09	Liu
	98	6326018	2001-12-04	Gertzman et al.
	99	6376211	2002-04-23	Little II et al.
	100	6384196	2002-05-07	Weis et al.
	101	6384197	2002-05-07	Weis et al.

102	4668295	1987-05-26	Bajpai
103	5123923	1992-06-23	Pommier et al.
104	5152836	1992-10-06	Hirano et al.
105	5426769	1995-06-20	Snyders, Jr.
106	6346123	2002-02-12	McKay
107	5290763	1994-03-01	Poser et al.
108	5707962	1998-01-13	Cheng et al.
109	4451397	1984-05-29	Huc et al.
110	4455256	1984-06-19	Urist
111	4563350	1986-01-07	Nathan et al.
112	4596574	1986-06-24	Urist
113	4606910	1986-08-19	Sawyer
114	4620327	1986-11-04	Caplan et al.
115	4761471	1988-08-02	Urist
116	4776890	1988-10-11	Chu
117	4780450	1998-10-25	Sauk et al.
118	4789732	1988-12-06	Urist
119	4891359	1990-01-02	Saferstein et al.
120	4950483	1990-08-21	Ksander et al.
121	4970298	1990-11-13	Silver et al.
122	4975527	1990-12-04	Koezuka et al.
123	5034059	1991-07-23	Constantz
124	5035715	1991-07-30	Smestad et al.
125	5053212	1991-10-01	Constantz et al.
126	5061286	1991-10-29	Lyle
127	5069905	1991-12-03	Lidor et al.
128	5071434	1991-12-10	Tsuzuki et al.
129	5073373	1991-12-17	O'Leary et al.
130	5123925	1992-06-23	Smestad et al.
131	5162114	1992-11-10	Kuberasampath et al.
132	5169837	1992-12-08	Lagarde et al.
133	5171574	1992-12-15	Kuberasampath et al.
134	5206023	1993-04-27	Hunziker
135	5207710	1993-05-04	Chu et al.
136	5231169	1993-07-27	Constantz et al.
137	5236456	1993-08-17	O'Leary et al.

	138	5258029	1993-11-02	Chu et al.
	139	5263985	1993-11-23	Bao et al.
	140	5270300	1993-12-14	Hunziker
	141	5320844	1994-06-14	Liu
	142	5336264	1994-08-09	Constantz et al.
	143	5338772	1994-08-16	Bauer et al.
	144	5344654	1994-09-06	Rueger et al.
	145	5352715	1994-10-04	Wallace et al.
	146	5366756	1994-11-22	Chesterfield et al.
	147	5368858	1994-11-29	Hunziker
	148	5399361	1995-03-21	Song et al.
	149	5405390	1995-04-11	O'Leary et al.
	150	5413989	1995-05-09	Ogawa et al.
	151	5428022	1995-06-27	Palefsky et al.
	152	5455231	1995-10-03	Constantz et al.
	153	5466462	1995-11-14	Rosenthal et al.
	154	5508267	1996-04-16	Czernuszkza et al.
	155	5522894	1996-06-04	Draenert
	156	5543394	1996-08-06	Wozney et al.
	157	5565502	1996-10-15	Glimcher et al.
	158	5573771	1996-11-12	Geistlich et al.
	159	5604204	1997-02-18	Ammann et al.
	160	5618549	1997-04-08	Patat et al.
	161	5645591	1997-07-08	Kuberasampath et al.
	162	5661007	1997-08-26	Wozney et al.
	163	5674290	1997-10-07	Li
	164	5674292	1997-10-07	Tucker et al.
	165	5674521	1997-10-07	Gehrke et al.
	166	5676699	1997-10-14	Gogolewski et al.
	167	5677284	1997-10-14	Li
	168	5683459	1997-11-04	Brekke
	169	5683461	1997-11-04	Lee et al.
	170	5686425	1997-11-11	Lee
	171	5691397	1997-11-25	Glimcher et al.
	172	5703043	1997-12-30	Celeste et al.
	173	5709934	1998-01-20	Bell et al.

	174	5728679	1998-03-17	Celeste et al.
	175	5739286	1998-04-14	Silver et al.
	176	5750146	1998-05-12	Jones et al.
	177	5756457	1998-05-26	Wang et al.
	178	5830493	1998-11-03	Yokota et al.
	179	5840325	1998-11-24	Kuberasampath et al.
	180	5854207	1998-12-29	Lee et al.
	181	5899939	1999-05-04	Boyce et al.
	182	5906827	1999-05-25	Khoury et al.
	183	5910315	1999-06-08	Stevenson et al.
	184	5916870	1999-06-29	Lee et al.
	185	5922025	1999-07-13	Hubbard
	186	5928635	1999-07-27	Schmidt
	187	5948426	1999-09-07	Jefferies
	188	5955438	1999-09-21	Pitaru et al.
	189	5964805	1999-10-12	Stone
	190	5972368	1999-10-26	McKay
	191	6005161	1999-12-21	Brekke et al.
	192	6013853	2000-01-11	Athanaslou et al.
	193	6013856	2000-01-11	Tucker et al.
	194	6027742	2000-02-22	Lee et al.
	195	6027743	2000-02-22	Khoury et al.
	196	6028242	2000-02-22	Tucker et al.
	197	6039762	2000-03-21	McKay
	198	6077988	2000-06-20	Kuberasampath et al.
	199	6090996	2000-07-18	Li
	200	6110482	2000-08-29	Khoury et al.
	201	6123731	2000-09-26	Boyce et al.
	202	6136030	2000-10-24	Lin et al.
	203	6168801	2001-01-02	Heil, Jr. et al.
	204	6177406	2001-01-23	Wang et al.
	205	6187046	2001-02-13	Yamamoto et al.
	206	6187742	2001-02-13	Wozney et al.
	207	6189537	2001-02-20	Wolfenbarger, Jr.
	208	6203573	2001-03-20	Walter et al.
	209	6203574	2001-03-20	Kawamura

	210	6206924	2001-03-27	Timm
	211	6206931	2001-03-27	Cook et al.
	212	6221109	2001-04-24	Geistlich et al.
	213	6261586	2001-07-17	McKay
	214	6280474	2001-08-28	Cassidy et al.
	215	6281195	2001-08-28	Rueger et al.
	216	6287816	2001-09-11	Rosen et al.
	217	6294041	2001-09-25	Boyce et al.
	218	6302913	2001-10-16	Ripamonti et al.
	219	6309422	2001-10-30	Farrington et al.
	220	6309909	2001-10-30	Ohgiyama
	221	6311690	2001-11-06	Jefferies
	222	6331312	2001-12-18	Lee et al.
	223	6340648	2002-01-22	Imura et al.
	224	6352972	2002-03-05	Nimni et al.
	225	6371985	2002-04-16	Goldberg
	226	6372257	2002-04-16	Marchosky
	227	6379385	2002-04-30	Kalas et al.
	228	6406498	2002-06-18	Tormala et al.
	229	6417166	2002-07-09	Liu
	230	6419708	2002-07-16	Hall et al.
	231	6423095	2002-07-23	Van Hoeck et al.
	232	6425949	2002-07-30	Lemaitre et al.
	233	6426332	2002-07-30	Rueger et al.
	234	6432919	2002-08-13	Wang et al.
	235	6440444	2002-08-27	Boyce et al.
	236	6444222	2002-09-03	Asculai et al.
	237	6468308	2002-10-22	Kuberasampath et al.
	238	6478825	2002-11-12	Winterbottom et al.
	239	6479065	2002-11-12	Jaworowicz et al.
	240	6479565	2002-11-12	Stanley
	241	6504079	2003-01-07	Tucker et al.
	242	6511510	2003-01-28	de Bruijn et al.
	243	6511958	2003-01-28	Atkinson et al.
	244	6524345	2003-02-25	Valimaa et al.
	245	6540784	2003-04-01	Barlow et al.

	246	6541023	2003-04-01	Andre et al.
	247	6544290	2003-04-08	Lee et al.
	248	6551995	2003-04-22	Oppermann et al.
	249	5279831	1994-01-18	Constantz et al.
	250	5650176	1997-07-22	Lee et al.
	251	5670483	1997-09-23	Zhang et al.
	252	5681873	1997-10-28	Norton et al.
	253	5707442	1998-01-13	Fogel et al.
	254	5711957	1998-01-27	Patat et al.
	255	5741329	1998-04-21	Agrawal et al.
	256	5755792	1998-05-26	Brekke
	257	5769895	1998-06-23	Ripamonti

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20020090725	2002-07-11	Simpson et al.			
	2	20020082594	2002-06-27	Hata et al.			
	3	20020055143	2002-05-09	Bell et al.			
	4	20020018797	2002-02-14	Cui et al.			
	5	20010055622	2001-12-27	Burrell et al.			
	6	20010053937	2001-12-20	Johnson et al.			
	7	20010049141	2001-12-06	Fike et al.			
	8	20010044413	2001-11-22	Pierce et al.			
	9	20010016646	2001-08-23	Rueger et al.			
	10	20010005797	2001-06-28	Barlow et al.			
	11	20010008980	2001-07-19	Gresser et al.			
	12	20010010023	2001-07-26	Schwartz et al.			
	13	20010012968	2001-08-09	Preissman			
	14	20010014662	2001-08-16	Rueger et al.			
	15	20010014667	2001-08-16	Chen et al.			
	16	20010014830	2001-08-16	Kwan et al.			
	17	20010014831	2001-08-16	Scarborough			
	18	20010018614	2001-08-30	Bianchi			
	19	20010018797	2001-09-06	Shepherd			

	20	20010020476	2001-09-13	Gan et al.
	21	20010031799	2001-10-18	Shimp
	22	20010037014	2001-11-01	Liu
	23	20010039453	2001-11-08	Gresser et al.
	24	20010041792	2001-11-15	Donda et al.
	25	20010041942	2001-11-15	Ylanen et al.
	26	20010043940	2001-11-22	Boyce et al.
	27	20010051834	2001-12-13	Fronzoza et al.
	28	20010004225	2001-06-12	Nicholls et al.
	29	20020013626	2002-01-31	Geistlich et al.
	30	20020013627	2002-01-31	Geistlich et al.
	31	20020018796	2002-02-14	Wironen
	32	20020018798	2002-02-14	Sewing et al.
	33	20020022883	2002-02-21	Burg
	34	20020022885	2002-02-21	Ochi
	35	20020034532	2002-03-21	Brodbeck et al.
	36	20020034533	2002-03-21	Peterson et al.
	37	20020037309	2002-03-28	Jaworowicz et al.
	38	20020042657	2002-04-11	Pugh et al.
	39	20020045582	2002-04-18	Margolin et al.
	40	20020053937	2002-05-09	Lloyd
	41	20020058622	2002-05-16	Igari et al.
	42	20020061328	2002-05-23	Gertzman et al.
	43	20020072804	2002-06-13	Donda
	44	20020082694	2002-06-27	McKay
	45	20020082697	2002-06-27	Damien
	46	20020082700	2002-06-27	Bianchi et al.
	47	20020098222	2002-07-25	Wironen et al.
	48	20020106393	2002-08-08	Bianchi et al.
	49	20020106394	2002-08-08	Tucker et al.

Remarks

Note: Remarks are not for responding to an office action.

The eIDS is submitted on the same day that a Supplemental Information Disclosure Statement, including copies of foreign and non-patent art, is being mailed to the USPTO in accordance with 37 CFR 1.8. Please consider these two documents a single

submission for the purpose of assessing any fee under 37 CFR 1.17(p).

Signature

Examiner Name	Date